# Álvaro Corrales Cano

**Data Scientist and Economist** with 4 years of experience in data analysis in client-facing roles in tech and consulting firms

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## Technical skills

### Methods

**Main area of expertise**: Econometrics

- Causal inference – Panel data, RCT, regression discontinuity
- Discrete choice – Classification problems
- Time series – ARIMA, GARCH
- Duration Analysis

**Machine Learning experience**

- Natural Language Processing (NLP) – Sentiment Analysis, Topic modelling
- Linear and logistic regression, SVM, KNN, Random Forests, Gradient Boosting
- Clustering methods – Hierarchical, K-means

**Current interests**

- Deep Learning – CNN, LSTM
- Bayesian Networks (with a blog in Towards Data Science)

### Technologies

**Python**

- Data wrangling: *numpy, pandas, scipy*
- ML: *scikit-learn, statsmodels, keras, xgboost, lightgbm, optuna*
- Visualisation & dashboarding: *matplotlib, seaborn, plotly, streamlit*
- NLP: *gensim, nltk, spacy*

**Cloud**

- IBM Cloud and Cloud Pak for Data
- Docker (basic)

**Other**

- Stata, Excel, R (basic)

## Professional experience

### IBM
#### Data Scientist

**London, UK**
**November 2019 – Present**

**Cloud Pak Acceleration Team** - Helping organisations use their data with **Cloud** technology, **AI** and an **Agile** methodologies. Show the value of IBM's Cloud Pak for Data through PoC and MVP. Relevant experience:

- **Emergent Alliance** - **Led two teams** producing open-source material in the fight against Covid-19. Code available on Github.

    i. Co-authored a model of the economy to study how economic shocks propagate across economic sectors. We spined it of as a publicly available app.

    ii. Identified mental health problems and perception of vaccines for NHS on Twitter using topic modelling and sentiment analysis.

- **Publishing industry** - Demonstrated how to leverage NLP and clustering techniques to identify authors of comments in online forums that use different user names across several platforms.

- **Energy sector** – Improved the data collection and organisation process of a company by using a harmonised catalogue with data protection rules, which can be partially accessed by external users, as required by national regulations.

**Give-back activities**

o I have **spoken in public events** with organisations such as Code First Girls and PyData London, for which I have achieved recognition as a public speaker and teacher.

o I enjoy **mentoring** people that want to start a career as a Data Scientist, for which I have also gained recognition.

o I publish blogs about Data Science with my IBM Medium account.

## Charles River Associates
### Consulting Associate

London, UK
**August 2018 – July 2019**

**Competition Practice** – Working in mergers and abuse of dominance cases.

o Successfully advised PayPal in its acquisition of iZettle, a company in the card payments industry, in a $2.2bn operation.

o Worked on other confidential cases in the tech, air transport and natural gas sectors in front of the UK's and the EU's competition authorities.

o Responsibilities ranged from analysing large datasets in **Python** and **Stata** to drafting economic reports to be presented as evidence in my cases.

## Neovantas Consulting
### Business Analyst – Data Analyst

Madrid, Spain
**January 2016 – August 2017**

o **Banking sector** – Led a lighthouse project for the design and implementation of debt recovery strategy for a collection agency using speech analytics and econometric techniques. Improvement of up to +29 p.p. in collection ratios. Started this project as an intern; after one year, I was leading a team of three people, including client-facing responsibilities.

o **Banking sector** – Built for major European bank building an econometric model to evaluate the impact of internal management training.

o **Mentor** of new colleagues.

## Education

## Barcelona Graduate School of Economics
### MSc in Economics and Finance - 8.8/10

2017 – 2018

Specialised in Econometrics and Machine Learning

## Universidad Carlos III de Madrid
### BA in Economics - 8.2/10

2012 – 2016

## University of California, Berkeley
### BA in Economics – Exchange Year (3) – 8.5/10

2014 – 2015

## Languages

- o **Spanish** – Native
- o **English** – Full proficiency
- o **French** – Intermediate

## Interests

I am passionate reader of ancient Greco-Roman literature, such as Homer's *Odyssey* or Herodotus' *Histories*. I also enjoy podcasting and evangelising in blogs and presentations.